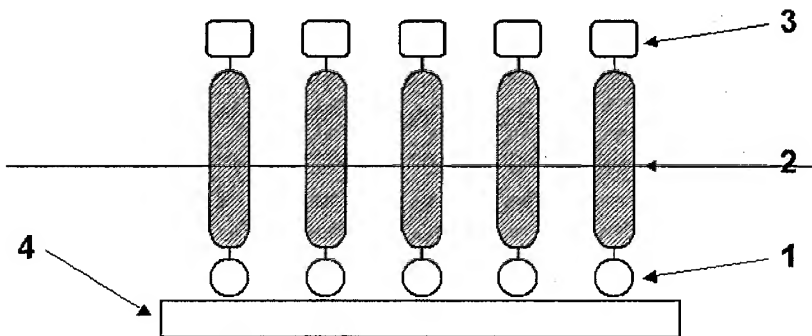


Amendments to the Specification:

Please replace paragraph [0003] of the specification with the following:

[0003] The concept of the protein chip is based on the protein microarrays which contain chemically or biochemically treated surfaces for specific interaction with proteins of interest. ~~As illustrated in the following Reference Diagram 1, a~~ protein chip can be made by using a solid substrate illustrated in Fig. 1 as follows: first, a thin film is formed on a solid substrate 4 using compounds with functional groups 1 for linkages with the solid substrate 4 and another functional groups 3 for linkages with biomaterials such as proteins. Then, biomaterials such as proteins can be immobilized on the solid substrate 4 via chemical or physical interactions between biomaterial and the terminal functional group 3. In Fig. 1, 2 refers to a molecular body.~~Reference Diagram 1 illustrates the solid substrate 4 having a thin film made of compounds with the functional groups 1 for linkages with the solid substrate 4 and the functional groups 3 for linkages with biomaterials such as proteins.~~

<Reference Diagram 1>

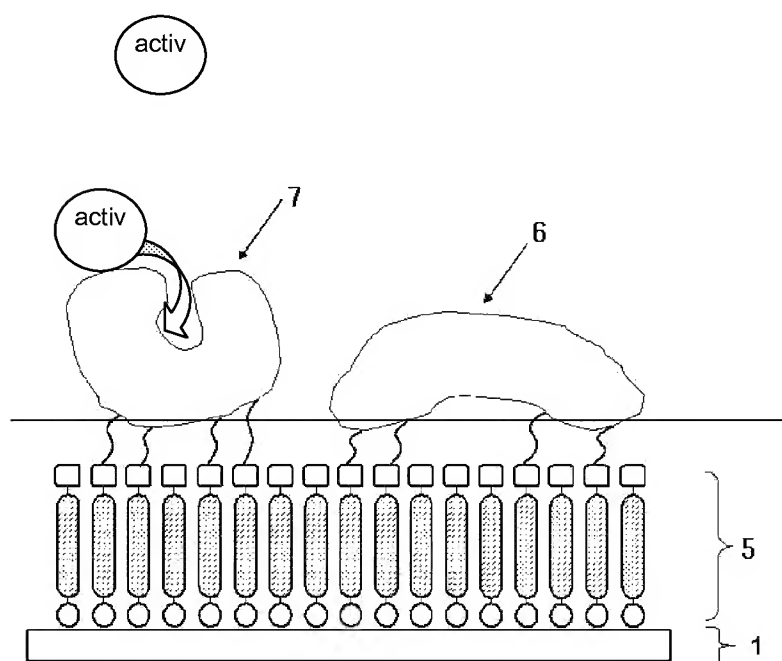


~~wherein 1 is a functional group for linkage with a solid substrate, 2 is a molecular body, 3 is a functional group for linkage with a biomaterial, and 4 is the solid substrate.~~

Please replace paragraph **[0006]** of the specification with the following:

[0006] However, it is well-known that their specificities or activities toward substrates are seriously affected by the immobilization method, because the specificity and activity are strongly related to their specific three-dimensional structures and orientation of their active sites, ~~referring to the following Reference Diagram 2.~~ Therefore, the three-dimensional structures of proteins may be damaged when the proteins are covalently bonded to a solid substrate, thereby causing degeneration of the proteins, ~~like such as a protein 6 of Reference Diagram 2 shown in Fig. 2.~~ This is because the function of proteins is dependent on their specific three-dimensional structures formed by chains of amino acids constituting the proteins. To maintain the function of a protein chip, like a protein 7 of ~~Reference Diagram 2,~~ in Fig. 2, an active site must not be bonded to the linkage layer 5 to preserve the functionality of the active site.

<Reference Diagram 2>



~~wherein 1 is a solid substrate, 5 is a linkage layer, 6 is a protein with a damaged active site, and 7 is a protein with a preserved active site.~~

Please replace paragraph [0059] of the specification with the following and insert new paragraphs [0060] and [0061]:

[0059] ~~FIG. 1 is a diagram that illustrates a cucurbituril derivative covalent bonded solid substrate.~~ FIG. 1 is a diagram illustrating a solid substrate 4 having a thin film made of compounds with functional groups 1 for linkages with the solid substrate 4 and functional groups 3 for linkages with biomaterials such as proteins.

[0060] FIG. 2 is a diagram illustrating three-dimensional structures of proteins that are covalently bonded to a solid substrate.

[0061] FIG. 3 is a diagram illustrating a cucurbituril derivative covalent bonded solid substrate.